## Release notes for ENDF/B Development n-068\_Er\_164 evaluation



April 26, 2017

- checkr Warnings:
  - 1. A previous error halted parsing of the current section  $MAT=6831,\ MF=1,\ MT=451\ (1)$ : Parsing stopped

ERROR(S) FOUND IN MAT=6831, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 135 TO 243

- checkr Errors:
  - 1. A variable is outside the allowed ENDF range MAT=6831, MF=1, MT=451 (0): Variable range

ERROR(S) FOUND IN MAT=6831, MF= 1, MT=451
MOD = 1 OUT OF RANGE 0 - 0 RECORD NUMBER 135

2. Missing a section in directory so your directory is messed up. This error will break everything else  $MAT=6831,\ MF=2,\ MT=151\ (0)$ : Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY RECORD NUMBER 245

3. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=3, MT=1 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY RECORD NUMBER 271

4. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=3, MT=2 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY RECORD NUMBER 302

5. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=3, MT=4 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY RECORD NUMBER 333

6. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=3, MT=16 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 353

7. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=3, MT=17 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 17 SECTION 3/ 17 NOT IN DIRECTORY

RECORD NUMBER 362

8. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 3, MT = 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 22 SECTION 3/ 22 NOT IN DIRECTORY

RECORD NUMBER 368

9. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 3, MT = 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 28 SECTION 3/ 28 NOT IN DIRECTORY

RECORD NUMBER 379

10. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 3, MT = 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 51 SECTION 3/ 51 NOT IN DIRECTORY

RECORD NUMBER 388

11. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=3, MT=52 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 52 SECTION 3/ 52 NOT IN DIRECTORY

RECORD NUMBER 403

12. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=3, MT=53 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 53 SECTION 3/ 53 NOT IN DIRECTORY

RECORD NUMBER 417

13. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=3, MT=54 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 54 SECTION 3/ 54 NOT IN DIRECTORY

RECORD NUMBER 430

14. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=3, MT=55 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 55 SECTION 3/ 55 NOT IN DIRECTORY

RECORD NUMBER 443

15. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=3, MT=56 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 56 SECTION 3/ 56 NOT IN DIRECTORY

RECORD NUMBER 456

16. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 3, MT = 57 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 57 SECTION 3/ 57 NOT IN DIRECTORY

RECORD NUMBER 469

17. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 3, MT = 58 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 58 SECTION 3/ 58 NOT IN DIRECTORY

RECORD NUMBER 482

18. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 3, MT = 59 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 59 SECTION 3/ 59 NOT IN DIRECTORY

RECORD NUMBER 494

19. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 3, MT = 60 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 60 SECTION 3/ 60 NOT IN DIRECTORY

RECORD NUMBER 506

20. Missing a section in directory so your directory is messed up. This error will break everything also

erything else MAT=6831, MF=3, MT=61 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 61 SECTION 3/ 61 NOT IN DIRECTORY

RECORD NUMBER 518

21. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 3, MT = 62 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 62 SECTION 3/ 62 NOT IN DIRECTORY

RECORD NUMBER 530

22. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=3, MT=63 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 63 SECTION 3/ 63 NOT IN DIRECTORY

RECORD NUMBER 542

23. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 3, MT = 64 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 64 SECTION 3/ 64 NOT IN DIRECTORY

RECORD NUMBER 554

24. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 3, MT = 65 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 65 SECTION 3/ 65 NOT IN DIRECTORY

RECORD NUMBER 566

25. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 3, MT = 66 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 66 SECTION 3/ 66 NOT IN DIRECTORY

RECORD NUMBER 578

26. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 3, MT = 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT= 91 SECTION 3/ 91 NOT IN DIRECTORY

RECORD NUMBER 590

27. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 3, MT = 102 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT=102 SECTION 3/102 NOT IN DIRECTORY

RECORD NUMBER 602

28. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=3, MT=103 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT=103

SECTION 3/103 NOT IN DIRECTORY

RECORD NUMBER 624

29. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 3, MT = 104 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT=104 SECTION 3/104 NOT IN DIRECTORY

RECORD NUMBER 636

30. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=3, MT=105 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT=105 SECTION 3/105 NOT IN DIRECTORY

RECORD NUMBER 646

31. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=3, MT=107 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 3, MT=107 SECTION 3/107 NOT IN DIRECTORY

RECORD NUMBER

32. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 4, MT = 2 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 2 SECTION 4/ 2 NOT IN DIRECTORY

RECORD NUMBER 670

33. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 6831, MF = 4, MT = 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 16

SECTION 4/ 16 NOT IN DIRECTORY

RECORD NUMBER 864

34. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 4, MT = 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 17 SECTION 4/ 17 NOT IN DIRECTORY

RECORD NUMBER 867

35. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 6831, MF = 4, MT = 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 22 SECTION 4/ 22 NOT IN DIRECTORY

RECORD NUMBER

36. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 6831, MF = 4, MT = 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 28 SECTION 4/ 28 NOT IN DIRECTORY

RECORD NUMBER 873

37. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 6831, MF = 4, MT = 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 51 SECTION 4/51 NOT IN DIRECTORY

RECORD NUMBER 876

38. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 6831, MF = 4, MT = 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 52 SECTION 4/52 NOT IN DIRECTORY

RECORD NUMBER 1137

39. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 6831, MF = 4, MT = 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 53 SECTION 4/ 53 NOT IN DIRECTORY

RECORD NUMBER 1299

40. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 4, MT = 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 54 SECTION 4/ 54 NOT IN DIRECTORY

RECORD NUMBER 1454

41. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 4, MT = 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 55 SECTION 4/ 55 NOT IN DIRECTORY

RECORD NUMBER 1601

42. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 4, MT = 56 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 56 SECTION 4/ 56 NOT IN DIRECTORY

RECORD NUMBER 1745

43. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 4, MT = 57 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 57 SECTION 4/ 57 NOT IN DIRECTORY

RECORD NUMBER 1882

44. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=4, MT=58 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 58 SECTION 4/ 58 NOT IN DIRECTORY

RECORD NUMBER 2015

45. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 4, MT = 59 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 59 SECTION 4/ 59 NOT IN DIRECTORY

RECORD NUMBER 2140

46. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=4, MT=60 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 60 SECTION 4/ 60 NOT IN DIRECTORY

RECORD NUMBER 2261

47. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=4, MT=61 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 61 SECTION 4/ 61 NOT IN DIRECTORY

RECORD NUMBER 2379

48. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 4, MT = 62 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 62 SECTION 4/ 62 NOT IN DIRECTORY

RECORD NUMBER 2495

49. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 4, MT = 63 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 63 SECTION 4/ 63 NOT IN DIRECTORY

RECORD NUMBER 2605

50. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 4, MT = 64 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 64 SECTION 4/ 64 NOT IN DIRECTORY

RECORD NUMBER 2715

51. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 4, MT = 65 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 65 SECTION 4/ 65 NOT IN DIRECTORY

RECORD NUMBER 2821

52. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 4, MT = 66 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 66 SECTION 4/ 66 NOT IN DIRECTORY

RECORD NUMBER 2927

53. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 4, MT = 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 4, MT= 91 SECTION 4/ 91 NOT IN DIRECTORY

RECORD NUMBER 3031

54. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=5, MT=16 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 5, MT= 16

SECTION 5/ 16 NOT IN DIRECTORY

RECORD NUMBER 3126

55. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=5, MT=17 (0): Directory (b)

7

ERROR(S) FOUND IN MAT=6831, MF= 5, MT= 17 SECTION 5/ 17 NOT IN DIRECTORY

RECORD NUMBER 3411

56. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 5, MT = 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 5, MT= 22 SECTION 5/ 22 NOT IN DIRECTORY

RECORD NUMBER 3526

57. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 5, MT = 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 5, MT= 28 SECTION 5/ 28 NOT IN DIRECTORY

RECORD NUMBER 3957

58. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 5, MT = 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF= 5, MT= 91 SECTION 5/ 91 NOT IN DIRECTORY

RECORD NUMBER 4250

59. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 12, MT = 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 16 SECTION 12/ 16 NOT IN DIRECTORY

RECORD NUMBER 4776

60. Missing a gamma spectrum for continuum of gammas MAT=6831, MF=12, MT= 16 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 16
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

61. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 17 SECTION 12/ 17 NOT IN DIRECTORY

RECORD NUMBER 4785

62. Missing a gamma spectrum for continuum of gammas  $MAT=6831,\ MF=12,\ MT=17$  (1): No gamma spectrum

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 17
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

63. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 51 SECTION 12/ 51 NOT IN DIRECTORY

RECORD NUMBER 4792

64. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 52 SECTION 12/ 52 NOT IN DIRECTORY

RECORD NUMBER 4796

65. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT=53 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 53 SECTION 12/ 53 NOT IN DIRECTORY

RECORD NUMBER 4800

66. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT=54 (0): Directory (b)

MAI = 0831, MF = 12, MI = 34 (0): Directory (0)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 54 SECTION 12/ 54 NOT IN DIRECTORY

RECORD NUMBER 4804

67. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=6831, MF=12, MT= 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 55 SECTION 12/ 55 NOT IN DIRECTORY

RECORD NUMBER 4808

68. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT=56 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 56 SECTION 12/ 56 NOT IN DIRECTORY

RECORD NUMBER 4812

69. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT=57 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 57 SECTION 12/ 57 NOT IN DIRECTORY

RECORD NUMBER 4816

70. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT=58 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 58 SECTION 12/ 58 NOT IN DIRECTORY

RECORD NUMBER 4820

71. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT=59 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 59 SECTION 12/ 59 NOT IN DIRECTORY

RECORD NUMBER 4824

72. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT=60 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 60 SECTION 12/ 60 NOT IN DIRECTORY

RECORD NUMBER 4828

73. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT=61 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 61 SECTION 12/ 61 NOT IN DIRECTORY

RECORD NUMBER 4833

74. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 12, MT = 62 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 62 SECTION 12/ 62 NOT IN DIRECTORY

RECORD NUMBER 4837

75. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT= 63 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 63 SECTION 12/ 63 NOT IN DIRECTORY

RECORD NUMBER 4841

76. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT=64 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 64 SECTION 12/ 64 NOT IN DIRECTORY

RECORD NUMBER 4845

77. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT=65 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 65 SECTION 12/ 65 NOT IN DIRECTORY

RECORD NUMBER 4849

78. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT=66 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 66 SECTION 12/ 66 NOT IN DIRECTORY

RECORD NUMBER 4853

79. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT=91 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 91 SECTION 12/ 91 NOT IN DIRECTORY

RECORD NUMBER 4857

80. Missing a gamma spectrum for continuum of gammas  $MAT=6831,\ MF=12,\ MT=91$  (1): No gamma spectrum

ERROR(S) FOUND IN MAT=6831, MF=12, MT= 91
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

81. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT=102 SECTION 12/102 NOT IN DIRECTORY

RECORD NUMBER 4868

82. Missing a gamma spectrum for continuum of gammas MAT=6831, MF=12, MT=102 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=6831, MF=12, MT=102 CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

83. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT=103 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT=103 SECTION 12/103 NOT IN DIRECTORY

RECORD NUMBER 4882

84. Missing a gamma spectrum for continuum of gammas  $MAT=6831,\ MF=12,\ MT=103\ (1)$ : No gamma spectrum

ERROR(S) FOUND IN MAT=6831, MF=12, MT=103
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

85. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=12, MT=107 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=12, MT=107 SECTION 12/107 NOT IN DIRECTORY

RECORD NUMBER 4893

86. Missing a gamma spectrum for continuum of gammas  $MAT=6831,\ MF=12,\ MT=107$  (1): No gamma spectrum

ERROR(S) FOUND IN MAT=6831, MF=12, MT=107 CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

87. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=14, MT= 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 16 SECTION 14/ 16 NOT IN DIRECTORY

RECORD NUMBER 4907

88. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=14, MT=17 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 17 SECTION 14/ 17 NOT IN DIRECTORY

RECORD NUMBER 4909

89. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 14, MT = 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 51 SECTION 14/ 51 NOT IN DIRECTORY

RECORD NUMBER 4911

90. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=14, MT=52 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 52

SECTION 14/ 52 NOT IN DIRECTORY

RECORD NUMBER 4913

91. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 14, MT = 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 53 SECTION 14/ 53 NOT IN DIRECTORY

RECORD NUMBER 4915

92. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=14, MT=54 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 54 SECTION 14/ 54 NOT IN DIRECTORY

RECORD NUMBER 4917

93. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=14, MT= 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 55 SECTION 14/ 55 NOT IN DIRECTORY

RECORD NUMBER 4919

94. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=14, MT= 56 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 56 SECTION 14/ 56 NOT IN DIRECTORY

RECORD NUMBER 4921

95. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=14, MT= 57 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 57 SECTION 14/ 57 NOT IN DIRECTORY

RECORD NUMBER 4923

96. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=14, MT=58 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 58 SECTION 14/ 58 NOT IN DIRECTORY

RECORD NUMBER 4925

97. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 14, MT = 59 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 59 SECTION 14/ 59 NOT IN DIRECTORY

RECORD NUMBER 4927

98. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=14, MT=60 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 60 SECTION 14/ 60 NOT IN DIRECTORY

RECORD NUMBER 4929

99. Missing a section in directory so your directory is messed up. This error will break ev-

erything else MAT=6831, MF=14, MT=61 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 61 SECTION 14/ 61 NOT IN DIRECTORY

RECORD NUMBER 4931

100. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=14, MT=62 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 62 SECTION 14/ 62 NOT IN DIRECTORY

RECORD NUMBER 4933

101. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=14, MT= 63 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 63 SECTION 14/ 63 NOT IN DIRECTORY

RECORD NUMBER 4935

102. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 14, MT = 64 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 64 SECTION 14/ 64 NOT IN DIRECTORY

RECORD NUMBER 4937

103. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=14, MT=65 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 65 SECTION 14/ 65 NOT IN DIRECTORY

RECORD NUMBER 4939

104. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=14, MT=66 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 66 SECTION 14/ 66 NOT IN DIRECTORY

RECORD NUMBER 4941

105. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 14, MT = 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT= 91 SECTION 14/ 91 NOT IN DIRECTORY

RECORD NUMBER 4943

106. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 14, MT = 102 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT=102 SECTION 14/102 NOT IN DIRECTORY

RECORD NUMBER 4945

107. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 14, MT = 103 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT=103 SECTION 14/103 NOT IN DIRECTORY

RECORD NUMBER 4947

108. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=14, MT=107 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=14, MT=107 SECTION 14/107 NOT IN DIRECTORY

RECORD NUMBER 4949

109. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=15, MT=16 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=15, MT= 16 SECTION 15/ 16 NOT IN DIRECTORY

RECORD NUMBER 4952

110. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=15, MT=17 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=15, MT= 17

SECTION 15/ 17 NOT IN DIRECTORY

RECORD NUMBER 5058

111. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=15, MT=91 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=15, MT= 91 SECTION 15/ 91 NOT IN DIRECTORY

RECORD NUMBER 5091

112. Missing a section in directory so your directory is messed up. This error will break everything else  $MAT=6831,\ MF=15,\ MT=102\ (0)$ : Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=15, MT=102 SECTION 15/102 NOT IN DIRECTORY

RECORD NUMBER 5377

113. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 6831, MF = 15, MT = 103 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=15, MT=103 SECTION 15/103 NOT IN DIRECTORY

RECORD NUMBER 5926

114. Missing a section in directory so your directory is messed up. This error will break everything else MAT=6831, MF=15, MT=107 (0): Directory (b)

ERROR(S) FOUND IN MAT=6831, MF=15, MT=107 SECTION 15/107 NOT IN DIRECTORY

RECORD NUMBER 6171

- groupie Errors:
  - 1. Very small elastic cross section found 0: Small elastic

 ${\tt Multi-Group\ and\ Multi-Band\ Parameters\ from\ ENDF/B\ Data\ (GROUPIE\ 2015-2)}$ 

.

ENDF/B Input and Output Data Filenames ENDFB.IN

ENDFB.OUT
... [97 more lines]

... [37 more lines

- fudge-4.0 Warnings:
  - 1. Missing a channel with a particular angular momenta combination resonances / resolved / MultiLevel\_BreitWigner (Error # 0): missingResonanceChannel

WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"

2. Potential scattering hasn't converted, you need more L's! resonances / resolved (Error # 1): potentialScatteringNotConverged

WARNING: Potential scattering hasn't converged by L=0 at E=800.0 eV, xs[0]/xs[0]=100.0% > 0.1%

- fudge-4.0 Errors:
  - 1. Calculated and tabulated Q values disagree. reaction label 18: n[multiplicity:'2'] + Er163 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8818355.180419922 eV vs -8846370. eV!

2. Calculated and tabulated Q values disagree. reaction label 19: n[multiplicity:'3'] + Er162 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -15721127.30032349 eV vs -1.57477e7 eV!

3. Calculated and tabulated Q values disagree. reaction label 20: n + H1 + H0163 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6826141.224700928 eV vs -6854030. eV!

4. Calculated and tabulated Q values disagree. reaction label 21: Er165 + gamma~(Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 6678517.704467773 eV vs 6.6497e6 eV!

5. Calculated and tabulated Q values disagree. reaction label 22: n + He4 + Dy160 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 1332036.329315186 eV vs 1306910. eV!

6. Calculated and tabulated Q values disagree. reaction label 23: H1 + (Ho164-s -> Ho164 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -151695.9940795898 eV vs -230661. eV!

7. Calculated and tabulated Q values disagree. reaction label 24: H2 + Ho163-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4601575.123779297 eV vs -4629460. eV!

8. Calculated and tabulated Q values disagree. reaction label 25:  $H3 + Ho162\_s$  (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6752488.791473389 eV vs -6778720. eV!

9. Calculated and tabulated Q values disagree.

reaction label 26: He4 + (Dy161\_s -> Dy161 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 7786422.611785889 eV vs 7760280. eV!

## • njoy2012 Warnings:

1. Evaluation has no unresolved resonance parameters given unresr...calculation of unresolved resonance cross sections (0): No URR

```
---message from unresr---mat 6831 has no unresolved parameters copy as is to nout
```

2. Evaluation has no unresolved resonance parameters given purr...probabalistic unresolved calculation (0): No URR

```
---message from purr---mat 6831 has no unresolved parameters copy as is to nout
```

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 16 only mf4/mf5 provided

- 4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

  groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)
  - ---message from conver---cannot do complete particle production for mt= 17 only mf4/mf5 provided
- 5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
  - groupr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)
  - ---message from conver---cannot do complete particle production for mt= 22 only mf4/mf5 provided
- 6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

  groupr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)
  - ---message from conver---cannot do complete particle production for mt= 28 only mf4/mf5 provided
- 7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

  groupr...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)
  - ---message from conver---cannot do complete particle production for mt= 91 only mf4/mf5 provided